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CENTRAL INTELLIGENCE AGENCY

25X1A -

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| Plant | Product | Working Capacity (% Max.) | Max. Capacity (tons as P_2O_5) | Projected Future Capacity (tons as P_2O_5) |
|---------------------------|-----------------------------|---------------------------|-----------------------------------|---|
| Alcid, Coswig | Superphosphate | 40% | 12,000 | 12,000 |
| Alcid, Salzwedel | " | 50% | 10,000 | 10,000 |
| Organa, Magdeburg S.O. | " | 35% | 10,000 | 10,000 |
| VEB Draschwitz-Reuden | " | 40% | 5,000 | 5,000 |
| Jul. Grosse, Oschersleben | " | 50% | 5,000 | 5,000 |
| Alcid, Rüdersdorf | Calcium-Magnesium-Phosphate | 0% | 12,000 | 60,000 |
| Alcid, Oranienburg | " | - | - | 20,000 |
| Alcid, Heinrichshall | " | 100% | 4,000 | 12,000 |
| | | | 58,000 | 134,000 |

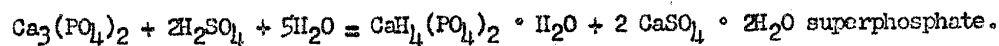
5. DDR yearly requirements for phosphate fertilizer range from a minimum of 150,000 tons to an optimum of 230,000 tons, computed as P_2O_5 . Accordingly, the DDR phosphate fertilizer industry will be well on its way to fulfilling ultimate needs when the planned expansion program is completed.

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* Comment: Possibly potassium acid phosphate KH_2PO_4 .

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** Comment: Ordinarily, insoluble phosphate rock is solubilized for use as fertilizer by treating it with sulfuric acid to form more readily soluble superphosphate and gypsum, as:



The exact reaction which occurs between the magnesium sulfate and calcium triphosphate in the furnace fusion process described here is not clear. Possibly a calcium magnesium phosphate complex is formed $[(CaMg)_3(PO_4)_4]_x$ in which the phosphate is more readily available. The sodium chloride is evidently added as a flux.

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*** Comment: Possibly potassium acid phosphate, KH_2PO_4 .

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